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TAKEDA KOICHI(54) **VACUUM ARC DESCALING METHOD**

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(57) Abstract:

PURPOSE: To reduce initial and running costs by projecting powder and granular iron consisting essentially of iron by high-pressure air to execute a shot blasting treatment and allowing shot materials to remain on the surface of a material to be treated and subjecting this material to pickling after a vacuum arc descaling method.

CONSTITUTION: The material 13 to be treated is subjected to descaling in a shot blasting device 10 then to arc discharge in a vacuum arc device 11. In succession, the material is pickled in a pickling tank 12. The currents flowing to electrodes and the potential difference thereof, magnetic field, etc., are subjected to a discharge treatment by the modes preset for every material. The parts of the oxides which are not removed by the shot blasting are thereby removed. The surface roughness is improved by the arc discharge in the vacuum. Only the removal of the remaining shot materials is executed by the pickling. The treatment of different kinds of steel with the same pickling tank is thus possible.

